

**AMENDMENTS TO THE SPECIFICATION:**

Please insert the following headings on page 1, before line 3:

**BACKGROUND OF THE INVENTION**

Field of the invention:

Please insert the following heading on page 1, before line 5:

**Description of the Related Art**

Please insert the following heading on page 4, before line 18:

**SUMMARY OF THE INVENTION**

Please insert the following text on page 5, before line 24:

**BRIEF DESCRIPTION OF THE DRAWINGS**

Figure 1 illustrates an embodiment of a device according to the present invention.

Figure 2 illustrates another embodiment of a device according to the present invention.

Figure 3 shows the initial state of the first operating cycle of the device by Clausius-Clapeyron plot.

Figure 4 shows the state of the device in phase A1, corresponding to instantaneous active refrigeration, by Clausius-Clapeyron plot.

Figure 5 shows the the state of the device in phase A2 by Clausius-Clapeyron plot.

Figure 6 shows the state of the device in phase B by Clausius-Clapeyron plot.

Figure 7 shows the state of the device in phase C, the rapid regeneration phase, by Clausius-Clapeyron plot.

Figure 8 shows the the state of the device in phase D by Clausius-Clapeyron plot.

Figure 9 shows a cross-sectional view of one embodiment of an evaporator.

Figure 10 shows a longitudinal sectional view of one embodiment of an evaporator.

### **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS**

Please amend the paragraph beginning on page 11, line 37 and ending on page 12, line 5, as follows:

Phase C is the rapid regeneration phase of the device. As soon as the pieces of ice have been separated (it being possible for them subsequently to be removed), the valve (5) is again closed. The heating of the reactor (1) is maintained, which continues the desorption of the gas, said gas being transferred to the cooled condenser via the means (8), in which condenser it condenses. The condensed gas progressively accumulates in liquid form in the bottom of the condenser. The state of the device is shown in figure ~~6~~ 7.

Please amend the paragraph beginning on page 14, line 4, and ending on page 14, line 10, as follows:

It is preferable for the ice tray to be divided into compartments by partitions that allow separate ice pieces of the desired shape to be obtained. Said partitions furthermore have the effect of increasing the stiffness of the assembly and of increasing the heat transfer, in order to promote rapid ~~rapid~~ ice formation.